

HIGH PERFORMANCE NUCLEIC ACID HYBRIDIZATION
DEVICE AND PROCESS

ABSTRACT OF THE DISCLOSURE

5 The invention discloses a device for hybridization reaction between
a target molecule in a fluid and a probe, which comprises a microfluidic
channel comprising a first portion and a second portion following said first
portion; wherein said first portion have an irregular cross section and said
second portion has a probe, and a fluid driving element connected the ends
of said channel with tubes, wherein said fluid element can move said target
10 molecules back-and-forth for repeatedly passing through said second
portion.

10073734-00102